



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** MAXIMA 256

**Other means of identification**

**Product number** 161042 / 192003

**Recommended use** Disinfectant Cleaner

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** Brulin & Company, Inc.

**Address** P.O. Box 270  
Indianapolis, IN 46206  
United States

**Telephone** Phone: 317-923-3211  
Fax: 317-925-4596

**Website** www.Brulin.com

**Emergency phone number** CHEMTREC 1-800-424-9300

## 2. Hazard(s) identification

**Physical hazards** Flammable liquids Not classified

**Health hazards** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Not classified  
Hazardous to the aquatic environment, long-term hazard Not classified

**OSHA defined hazards** Not classified.

**GHS label elements**

**Hazard statement** Causes skin irritation. Causes serious eye irritation.

**Label elements**



**Signal word** Danger

#### Prevention

Wash thoroughly after handling. Avoid release to the environment. If contact is likely, safety glasses with side shields are recommended. For prolonged or repeated skin contact use suitable protective gloves.

#### Response

IF IN EYES: Immediately flush eyes with plenty of water. Remove contact lenses if present and safe to do so. Continue rinsing. Get medical attention if irritation develops or persists. IF ON SKIN: Wash off with plenty of soap and water. Remove and wash contaminated clothing before use. Get medical attention if irritation develops and persists. IF SWALLOWED: Rinse mouth thoroughly with water. Drink plenty water to dilute contents of stomach. If large amount is ingested, contact a poison control center immediately. If a person feels unwell, consult a physician. IF INHALED: Move to fresh air. If a person feels unwell, contact a physician or medical personnel.

#### Storage

Keep out of the reach of children.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
CITRIC ACID, USP FINE GRANULATED		77-92-9	5 - <10
N-Alkyl(C14 50%, C12 40%, C16 10%)-N,N-dimethyl-N-benzylammonium Chloride		68424-85-1	5 - <10
Didecyldimethylammonium chloride		7173-51-5	1 - <5
Diethyl Dimethyl Ammonium Chloride		5538-94-3	1 - <5
ETHYL HYDROXIDE		64-17-5	1 - <5
Octyl Decyl Dimethyl Ammonium Chloride		32426-11-2	1 - <5
Other components below reportable levels			70 - <80

## 4. First-aid measures

<b>Eye contact</b>	Immediately flush eyes with plenty of water. Remove contact lenses if present and safe to do so. Continue rinsing. Get medical attention if irritation develops or persists.
<b>Skin contact</b>	Wash off with plenty of soap and water. Remove and wash contaminated clothing before use. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Drink plenty water to dilute contents of stomach. If large amount is ingested, contact a poison control center immediately. If a person feels unwell, consult a physician. Do not induce vomiting without medical advice.
<b>Inhalation</b>	Move to fresh air. If a person feels unwell, contact a physician or medical personnel.
<b>Notes to physician</b>	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
<b>General information</b>	If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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## Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

### Precautions for safe handling

Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Do not mix with other chemicals.

### Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
ETHYL HYDROXIDE (CAS 64-17-5)	STEL	1000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
ETHYL HYDROXIDE (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm

### Control parameters

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
ETHYL HYDROXIDE (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** If contact is likely, safety glasses with side shields are recommended.

#### Skin protection

##### Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Not normally needed.

##### Respiratory protection

Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

Color	clear green
Odor	pleasant Sassafrass
Odor threshold	Not available.
pH	1.3
Melting point/freezing point	Not available.
Boiling point	212 °F (100 °C)

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<b>Flash point</b>	None to Boiling: Pensky-Martens Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	as water
<b>Vapor density</b>	as water
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	100 %
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Specific gravity</b>	1.02
<b>VOC (Weight %)</b>	2.1 %

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	This product may react with reducing agents. Do not mix with other chemicals.
<b>Incompatible materials</b>	This product may react with reducing agents. Incompatible with bases.
<b>Hazardous decomposition products</b>	nitrogen oxides (NOx) Carbon oxides

## 11. Toxicological information

### Information on likely routes of exposure

<b>Eye contact</b>	Causes eye irritation.
<b>Skin contact</b>	Irritating to skin.
<b>Ingestion</b>	Expected to be a low ingestion hazard. May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
<b>Inhalation</b>	May cause irritation to the respiratory system.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation.
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<b>Acute toxicity</b>	
MAXIMA 256	5.89 g/kg Acute Oral LD50 Species: Rat

<b>Skin corrosion/irritation</b>	
<b>Irritation Corrosion - Skin</b>	
MAXIMA 256	4.496 Primary Skin: Draize, moderately irritating Species: Rabbit

<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
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<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>
Not listed.

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**Reproductive toxicity** Not available.

## 12. Ecological information

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Triple rinse containers. Can be offered for recycling, re-conditioning or puncture. Do not re-use empty containers.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### CERCLA (Superfund) reportable quantity

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

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## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### Safe Drinking Water Act (SDWA)

Not regulated.

## US state regulations

### US. Massachusetts RTK - Substance List

ETHYL HYDROXIDE (CAS 64-17-5)

### US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

### US. Pennsylvania RTK - Hazardous Substances

ETHYL HYDROXIDE (CAS 64-17-5)

### US. Rhode Island RTK

Not regulated.

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## 16. Other information, including date of preparation or last revision

### HMIS® ratings

Health: 2  
Flammability: 0  
Physical hazard: 0  
Personal protection: B

### NFPA ratings

Health: 2  
Flammability: 0  
Instability: 0

### Revision Information

Product and Company Identification: Product and Company Identification  
Hazards Identification: US Hazard Categories  
Composition / Information on Ingredients: Disclosure Overrides  
Toxicological Information: Toxicological Property Data  
Transport Information: Material Transportation Information  
Regulatory Information: United States  
Material Attributes & Uses; Experimental Data: Physical States  
Index: United States  
GHS: Classification

### Issue date

05-15-2014

### Version #

01

### Further information

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:  
**CORROSIVE**  
Causes irreversible eye damage and skin burns.  
Harmful if swallowed.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.